Warning

- Daikin Industries, Ltd.'s products are manufactured for export to numerous countries throughout the world. Daikin Industries, Ltd. does not have control over which products are exported to and used in a particular country. Prior to purchase, please therefore confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

JMI-0107

Organization:
DAIKIN INDUSTRIES, LTD.
AIR CONDITIONING MANUFACTURING DIVISION

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF COMMERCIAL AIR CONDITIONING, HEATING, COOLING, REFRIGERATING EQUIPMENT, COMMERCIAL HEATING EQUIPMENT, RESIDENTIAL AIR CONDITIONING EQUIPMENT, HEAT RECLAIM VENTILATION, AIR CLEANING EQUIPMENT, MARINE TYPE CONTAINER REFRIGERATION UNITS, COMPRESSORS AND VALVES.

JQA-1452

Organization:
DAIKIN INDUSTRIES (THAILAND) LTD.

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF AIR CONDITIONERS AND THE COMPONENTS INCLUDING COMPRESSORS USED FOR THEM

EC99J2044

All of the Daikin Group's business facilities and subsidiaries in Japan are certified under the ISO 14001 international standard for environment management.

Dealer

DAIKIN INDUSTRIES, LTD.

Head Office:
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

Tokyo Office:
JR Shinagawa East Bldg., 2-18-1, Konan,
Minato-ku, Tokyo, 108-0075 Japan

http://www.daikin.com/global_ac/

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PCRHK0705A

DAIKIN

Split Type Air Conditioners FTWN Series

Cooling Only [50 Hz] R-410A

A Step Forward in Performance and Interior Styling

Daikin has taken a step forward in achieving a combination of style and efficiency. The new FTWN series offers a flat panel design and delivers energy savings.

FTWN25/35J

GOOD DESIGN AWARD 2004 IN JAPAN

Flat Panel Design

The flat panel design introduces a bright concept in easy cleaning and interior decor.

▶ See pages 3 and 4.

High Energy Savings

The 2.5 kW model for new FTWN series delivers a high COP of 3.05. It is able to deliver energy efficiency.

▶ See page 5.

Quiet Operation

The new FTWN series has been achieved low sound levels. Sound levels for 2.5 kW model are 28 dB (A) for indoor unit operation and 48 dB (A) for outdoor unit operation.

▶ See page 6.

Clean Air with Less Dust and Odours

Air-Purifying Filter with Photocatalytic Deodorising function traps dust, decomposes odours and even removes bacteria and viruses.

▶ See page 6.

Sleek Flat Panel Design for the Wall- Mounted Type

The indoor units' stylish flat panel design adds grace and elegance to a room and simplifies decor coordination between rooms. It also reduces dust build-ups that can impair air-conditioner operation.

New Design

FTWN25/35J

GOOD DESIGN AWARD 2004 IN JAPAN

The Good Design Award is sponsored by the Japan Industrial Design Promotion Organization to promote excellence in commercial product design.

RWN25/35J

FTWN25JV1 / RWN25JV1
2.50 kW 8,530 Btu/h

FTWN35JV1 / RWN35JV1
3.20 kW 10,920 Btu/h

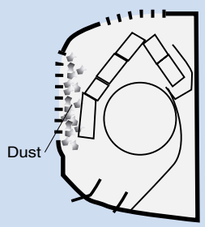
Easy to Coordinate

Daikin has always focused on creating sleek, modern air conditioners that coordinate smoothly with any type of interior decor. This concept has taken a major step forward with the versatile grilleless flat panel design.

Wipe-Clean Flat Panel

Flat panel models can be cleaned instantly with a single wipe of a cloth across their smooth surface. If more thorough cleaning is required, the panel can also be easily removed from the unit.

Conventional Front Grille Design



Front grille design units collect dust on their air inlet grilles unless these grilles are cleaned regularly.

1. Difficult to remove dust on the grille through wiping alone
2. Reduced capacity due to increased suction resistance
3. High sound levels due to increased suction resistance

Function List

Comfortable Airflow

- Power-Airflow Dual Flaps
- Vertical Auto-Swing (up and down)

Comfort Control

- Programme Dry Function
- Auto Fan Speed

Lifestyle Convenience

- Indoor Unit On/Off Switch

Cleanliness

- Air-Purifying Filter with Photocatalytic Deodorising Function
- Wipe-Clean Flat Panel
- Mould-Proof Air Filter

Timers

- 24-Hour On/Off Timer
- Night Set Mode

Worry Free

- Auto-Restart after Power Failure
- Self-Diagnosis with Digital Display
- Anticorrosion Treatment of Outdoor Heat Exchanger Fins

Energy Savings and Clean Air with Less Dust and Odours

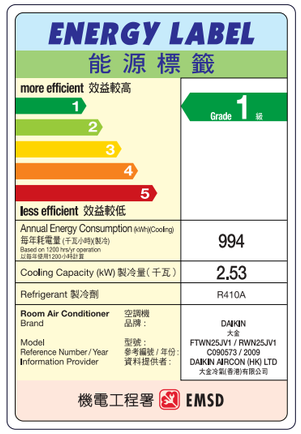
High Energy Savings

FTWN25J provides a high COP of 3.05. This model is appopriate for bedrooms, which are air-conditioned for long periods.

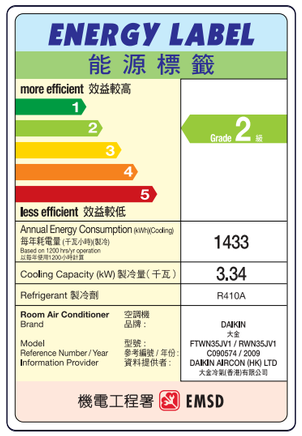
COP (W/W)	FTWN25J	FTWN35J
Cooling	3.05	2.72

What Is COP? An air conditioner's COP (Coefficient of Performance) indicates how efficiently the unit uses energy. A higher COP means greater energy efficiency. It also means lower electricity consumption, so you save money.

$$\text{COP (W/W)} = \frac{\text{Capacity (W)}}{\text{Power consumption (W)}}$$



FTWN25JV1 / RWN25JV1



FTWN35JV1 / RWN35JV1

Flexible 2-Way Installation

The outdoor unit is only 42 cm high meaning that it can either be installed in a wind hole or suspended from a wall. A maximum piping length of 15 m allows flexibility in choosing the installation position for the indoor unit.

Wind-hole installation

Traditional installation

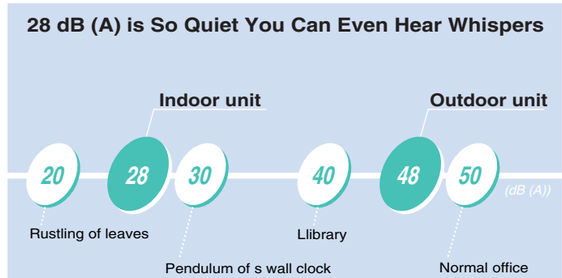
Quiet Sound Levels

The FTWN series offers low sound levels. Sound levels for 2.5 kW model are 28 dB (A) for indoor unit operation and 48 dB (A) for outdoor unit operation.

(dB (A))

Indoor unit	FTWN25J	FTWN35J
Sound levels (L)	28	31

Outdoor unit	RWN25J	RWN35J
Sound levels	48	49

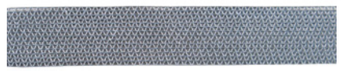


Based on "Examples of Sound Levels", Ministry of the Environment, Japan, November 12, 2002

Air-Purifying Filter with Photocatalytic Deodorising Function

Air-Purifying Filter with Photocatalytic Deodorising Function is able to trap microscopic particles, decompose odours and even remove bacteria and deactivate viruses. This filter features a large active surface area that effectively cleans the high volumes of air required to air-condition living rooms. The filter delivers consistent performance for approximately 3 years if periodic maintenance is performed.

Air-Purifying Filter with Photocatalytic Deodorising Function

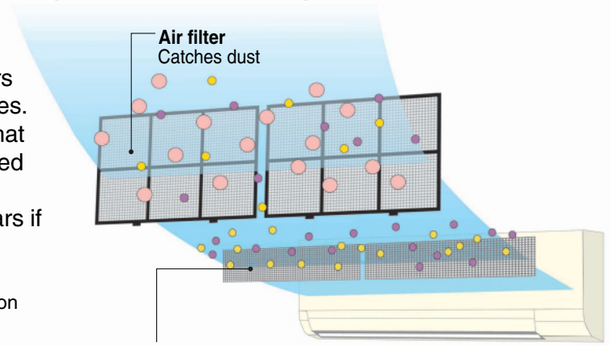


KAF970A44

This filter is not a medical devices. Benefits such as the adsorption and decomposition of bacteria and viruses are only effective for substances that are collected on and in direct contact with the Air-Purifying Filter with Photocatalytic Deodorising Function.

Bacteria removal test

Testing method:	Dropping method
Testing organisation:	Japan Spinners Inspecting Foundation
Result certificate:	No. 012553-1 and 012553-2



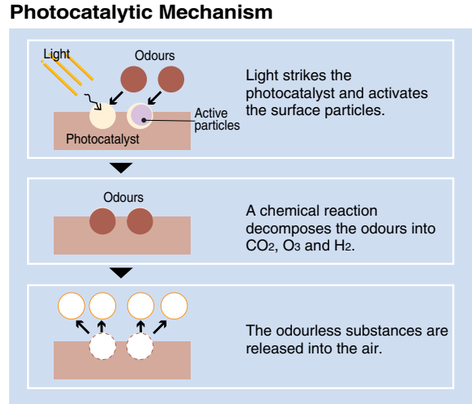
Air-Purifying Filter with Photocatalytic Deodorising Function FTWN25/35J

Traps microscopic particles, decomposes odours and even removes bacteria and viruses.

Photocatalytic deodorising mechanism

Photocatalytic deodorising filters are made of titanium oxide. When titanium oxide is exposed to light, a powerful oxidising action occurs. This decomposes substances adsorbed on the filter surface into odourless carbon dioxide and water.

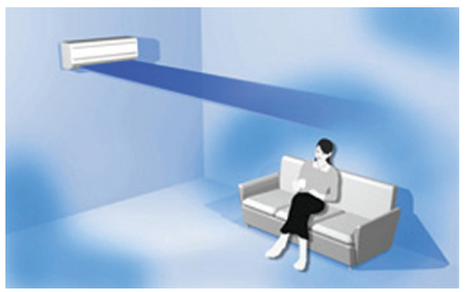
Photocatalytic Mechanism


Light
Odours
Active particles
Photocatalyst
Light strikes the photocatalyst and activates the surface particles.
Odours
A chemical reaction decomposes the odours into CO2, O3 and H2.
The odourless substances are released into the air.

Airflow and Reliable Functions

Power-Airflow Dual Flaps

Power-Airflow Dual Flaps can flatten out during cooling operation to deliver cool air to the corners of a room.

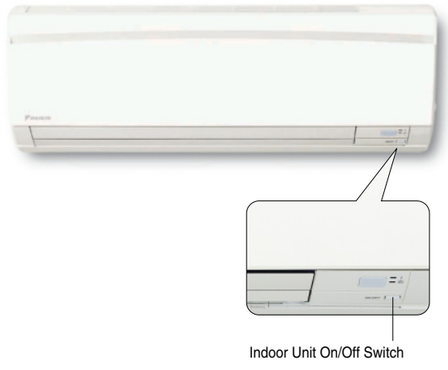


Vertical Auto-Swing (up and down)

This function automatically moves the flaps up and down to distribute air across a room. When the air conditioner is turned off, the flaps shut automatically so that dust can not enter.

Indoor unit On/Off switch

The unit can be conveniently started manually in the event the wireless remote controller is misplaced or the wireless remote controller batteries are not charged.

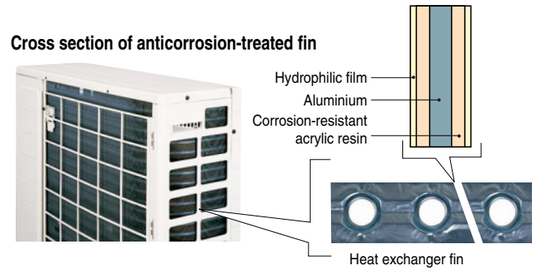


Auto Fan Speed

The microprocessor automatically controls fan speed to adjust the room temperature to the set temperature.

Anticorrosion Treatment of Outdoor Heat Exchanger Fins

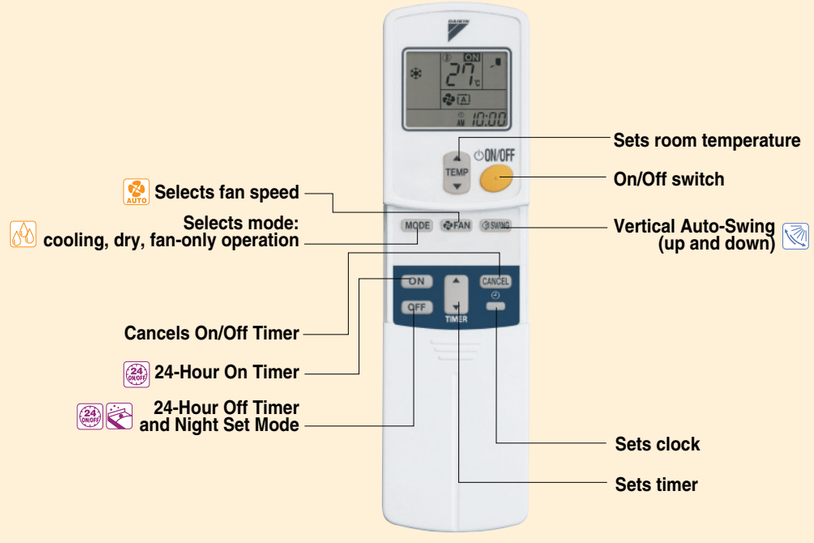
The outdoor unit's heat exchanger fins are processed using a special anticorrosion treatment. The surface is covered with a thin acrylic resin layer to enhance the fins' resistance to acid rain and salt corrosion. A hydrophilic film layer also prevents rust caused by the run off of water droplets. Additional durability is provided by a rustproof steel sheet on the bottom of the unit.



Self-Diagonosis with Digital Display

Malfunction codes are shown on the digital display panel of the wireless remote controller for fast and easy maintenance.

Easy-to-use wireless remote controller



Comfortable Airflow

Power-Airflow Dual Flaps
Power-Airflow Dual Flaps can flatten out during cooling operation to deliver cool air to the corners of a room.
▶ See page 7

Vertical Auto-Swing (up and down)
This function automatically moves the flaps up and down to distribute air across a room.
▶ See page 7

Lifestyle Convenience

Indoor Unit On/Off Switch
The unit can be conveniently started manually in the event the wireless remote controller is misplaced or the wireless remote controller batteries are not charged.
▶ See page 7

Cleanliness

Air-Purifying Filter with Photocatalytic Deodorising Function
This filter traps microscopic particles, decomposes odours and even removes bacteria and viruses. It can be used for up to 3 years .
▶ See page 6

Wipe-Clean Flat Panel
The flat panel models can be cleaned with only the single pass of a cloth across their smooth surface. The flat panel can also be easily removed for more thorough cleaning.
▶ See page 4

Mould-Proof Air Filter
The air filter is finished with a coating that suppresses the growth of mould on its surface.

Comfort Control

Programme Dry Function
This function automatically reduces the level of humidity.

Auto Fan Speed
The microprocessor automatically controls fan speed to adjust the room temperature to the set temperature.
▶ See page 7

Timers

24-Hour On/Off Timer
This timer can be preset to start and stop at any time within a 24-hour period. The air conditioner is started/stopped simply by pressing the On/Off/setting timer button on the wireless remote controller.

Night Set Mode
Pressing the Off timer button automatically selects Night Set Mode. Room temperature is raised by 0.5 °C after 60 minutes while minimum sound levels for outdoor unit are maintained to prevent excessive cooling for your pleasant sleep.

Worry Free

Auto-Restart After Power Failure
The air conditioner memorises the settings for mode, airflow, temperature, etc., and automatically returns to them when power is restored after a power failure.

Self-Diagnosis with Digital Display
Malfunction codes are shown on the digital display panel of the wireless remote controller for fast and easy maintenance.
▶ See page 8

Anticorrosion Treatment of Outdoor Heat Exchanger Fins
The outdoor unit's heat exchanger fins are processed using a special anticorrosion treatment. The surface is covered with a thin acrylic resin layer to enhance the fins' resistance to acid rain and salt corrosion.
▶ See page 8

Specifications

Model name	Indoor unit		FTWN25JV1	FTWN35JV1
	Outdoor unit		RWN25JV1	RWN35JV1
Capacity		kW	2.50	3.20
		Btu/h	8,530	10,920
Power supply			1 phase, 220V, 50Hz	
Running current		A	3.80	5.60
Power consumption		W	820	1,170
COP		W/W	3.05	2.72
Indoor unit			**FTWN25JV1**	**FTWN35JV1**
Front panel colour			White	
Airflow rate (H)		m^3/min (cfm)	8.5 (301)	9.4 (333)
Fan speed			5 steps and automatic	
Sound levels (H/L)		dB (A)	36/28	39/31
Dimensions (H x W x D)		mm	283 x 800 x 195	
Machine weight		kg	9	
Outdoor unit			**RWN25JV1**	**RWN35JV1**
Casing colour			Ivory white	
Compressor	Type		Hermetically sealed rotary type	
	Motor output	W	650	870
Refrigerant charge (R-410A)		kg	0.90	0.92
Sound levels		dB (A)	48	49
Dimensions (H x W x D)		mm	420 x 695 x 245	
Machine weight		kg	32	35
Operation range		°CDB	19.4 to 46	
Piping connections	Liquid	mm	ø6.4	
	Gas		ø 9.5	ø12.7
	Drain		ø18.0	
Max. piping length		m	15	
Max. height difference			10	

Measurement conditions
1. Cooling capacity is based on: indoor temp. 27 °CDB, 19 °CWB; outdoor temp. 35 °CDB; piping length 7.5 m.
2. Sound levels are based on the temperature condition 1. above. These are anechoic conversion values. These values are normally somewhat higher during actual operation as a result of ambient conditions.

Options

Indoor unit

No.	Item	FTWN25/35J
1	Air-purifying filter with photocatalytic deodorising function without frame *1	KAF970A44
2	Remote controller loss prevention with chain	KKF917A4

Notes: *1. The filter is a standard accessory. It should be replaced after approximately every 3 years.

Air-purifying filter with photocatalytic deodorising function without frame
KAF970A44

Remote controller loss prevention with chain
KKF917A4

Specifications are subject to change.